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| 1. Fallue Tvpe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\frac{2}{3}$ Buctele (asso enent |  | ${ }^{\times}$ | ${ }^{\times}$ | $\times$ | $\times$ | $\times$ | $\times \times$ |  |  | $\times$ | $\times$ | $\times$ | $\times$ | $\times \times$ | $\times \times$ | $\times$ | $\times$ |  | $\times \times$ | $\times \times$ | $\times$ |  | $\times \times$ | $\times$ | $\times$ | $\times$ |  | $\times \times$ | $\times$ | $\times \times$ | $\times$ |  | $\times \times$ | $\times$ | ${ }^{\times}$ |  |
| $\frac{4}{4}$ Corrosion Bathue Rine |  | ¢ <br> $\times 1$ <br> 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ¢ | ${ }^{\times \times}$ |  | ${ }^{\times}$ | $\times$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\times$ |  |  |  |  |  |
| 8 \% Corrosion - verticalel roioving |  | ${ }^{\text {x }}$ | ${ }^{\times}$ |  |  | $\times$ | $\times$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\times$ |  |  |  |  |  |
|  |  |  |  | x | $\times$ | x |  |  |  |  | $\stackrel{x}{x}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 crack- Weod Noto on Templates |  | ${ }^{\times}$ |  | ${ }^{\times}$ | $\stackrel{+}{*}$ | ${ }^{\times 1} \times$ | $\times$ |  |  | ${ }^{\wedge}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ${ }^{\times}$ |  | ${ }^{\times} \times{ }^{\text {x }}$ |  |  | x |  |  |
|  |  |  |  | ${ }^{\times} \times$ | ${ }^{\times} \times$ | ${ }^{\times} \times$ | ${ }^{\times \times}$ | ${ }^{\times}$ | ${ }^{\times} \times$ | ${ }^{\times}$ | $\times$ | $\times$ | $\times{ }^{\times}$ | $\times$ | $\times \times$ |  | $\times$ | $\times$ | $\times$ | $\times$ |  |  | $\times$ | $\times$ | $\times$ | $\times$ | $\times \times$ | $\times$ | $\times$ | $\times$ | ${ }^{\times} \times$ | ${ }^{\times} \times$ | - $\times$ | ${ }^{\times}$ |  |  |
| ${ }^{14}$ S Scores and Goubes | $\times$ | $\times{ }^{\times} \times$ | $\times \times$ | $\times$ |  |  |  |  |  |  | ${ }^{\times}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\times$ |
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| 17 Falure Case |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\times$ | $\times \times$ | $\times \times$ | - ${ }^{\text {x }}$ | ${ }^{x} \times$ |  |  |  | $\times$ $\times$ $\times$ $\times$ | ${ }^{\times}$ | ${ }^{\times}$ |  |  |  | $\times$ | $\stackrel{\times}{x}$ | ${ }^{\text {x }}$ |  | ${ }^{\times} \times$ |  |  |  |  | ${ }^{\text {x }}$ | ${ }^{\times}$ |  |  |  | ${ }^{\text {x }} \times$ | ${ }^{x} \times \frac{x}{x}$ |  |  |  | ${ }_{\text {x }}$ |  |  |
| 20 Ovestressed/Aused/R Oambe | ${ }^{\times} \times$ | ${ }^{\times} \times$ | $\times \mathrm{x}$ | $\times$ | ${ }^{\times}$ | ${ }^{\mathrm{x}} \times$ | $\times \times$ | $\times$ | $\times$ | $\times$ | $\times$ |  |  |  | $\times \times$ | ${ }^{\times}$ | $\times$ |  | ${ }^{\times}$ |  |  |  |  | $\times$ | $\times$ | $\times$ |  | $\times \times$ |  |  |  |  |  |  |  |  |
|  |   <br> $\times$  |  |  | $\times \times$ $\times \times$ $\times 1$ |  |  | ${ }^{\times}$ | ¢ $\times$ |  | ${ }^{\times} \times$ | $\stackrel{\times}{\times}$ | ${ }^{\mathrm{x}}{ }^{\mathrm{x}} \mathrm{x}$ | ${ }^{\text {x }}$ |  |  | ${ }^{\frac{x}{x}}$ | $\times$ | ¢ ${ }^{\mathrm{x}} \mathrm{X}$ | ${ }^{\times}$ |  | ${ }^{\frac{x}{x}}$ |  |  | ¢ ${ }^{\mathrm{x}} \mathrm{x}$ | $\stackrel{\times}{\times}$ | $\stackrel{\times}{\times}$ | ${ }^{\times}$ |  | $\times$ |  | ${ }^{\times}$ |  | ${ }^{\times}$ | ${ }^{\frac{x}{x}}$ |  |  |
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| 36 Grinding and Blending with no Weld Buildup <br> 37 Repair of Threaded or Non-threaded Holes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 33 Crack lensth | $\times$ | ${ }^{\times} \times$ | ${ }^{\times} \times$ | $\times$ | ${ }^{\times} \times$ | ${ }^{\times} \times$ | ${ }^{\times}$ |  | - | - | ${ }^{\times}$ | $\times$ | ${ }^{\times} \times$ |  | $\times$ |  | ${ }^{\times}$ | ${ }^{\times}$ | ${ }^{\times}$ |  |  |  | ${ }^{\times} \times$ | ${ }^{\times}$ | $\times$ |  |  | - $\times$ | ${ }^{\text {x }}$ | $\times$ | $\times$ |  |  |  |  |  |
| $4{ }_{4}^{42}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| (1) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| ${ }^{49}$ Pis Sidee |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\times$ |  |  |  |  |  |  |  |  |  |  |  |  |
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| 52 CR:Center Ribt |  |  |  | $\times$ | ${ }^{\times} \times$ | $\times$ |  |  | $\times$ |  | ${ }^{\times}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ${ }^{\times 1} \times$ | x | $\times$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | ${ }^{\times}{ }^{1}$ | ${ }^{\times 1} \times$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -57 ATs-A End Top Shell |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| (e) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 66 CLS - Center Left Shell <br> 67 CRS - Center Right Shell <br> 68 CTS - Center Top Shell |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 7 7 Insection Methol/ Techisues |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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